

NovaRoam Wireless Router



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VENDOR DESCRIPTION

Nova Engineering's NovaRoam 250 is a peer-to-peer wireless Internet Protocol (IP) router/repeater optimized for demanding mobile infrastructure-free applications. NovaRoam's long communications range, high data rate and exclusive routing algorithms enable self-configuring and self-healing tactical mesh networks.

NovaRoam's unique Mobile Ad-hoc Networking (MANET) capability achieves optimal data routing in dynamic wireless environments. Data network routes are automatically and quickly established while multiple paths are maintained to alleviate congestion. Reactions to changes in the network are resolved locally, minimizing communication overhead. NovaRoam's interfaces are standard Ethernet and Serial (RS-232).

Low-cost, low power industrial/commercial versions are also available.



Product Manager
Robotic & Unmanned Sensors

Telephone: (732) 427-5827 / DSN 987

Fax: (732) 427-5072 / DSN 987

e-mail: SFAE-IEWS-NV-RUS@IEWS.monmouth.army.mil

CDR

Hardware

Power: 10 watts	Cooling: Ambient air	Interface: 10 Base-T (RJ-45)
Weight: 5.5 lbs	Operating Temp.: -30°C to +70°C	Bandwidth Required: 4.0 MHz
Internal Volume: 0.2 ft ³	Storage Temp.: -40°C to +85°C	Maintainability: 2-level BIT to LRM level

Performance

BLOS for TOC-to-TOC radios of the Tactical Internet: Yes	# of TOC to TOC nets using TOC-to-TOC radios: 0
BLOS for JTRS-compliant waveforms: No	# of JTRS compliant waveforms: 0
Supports any combination of 3 voice or data networks	# of simultaneous nets: 3
Capable of cross-banding between radios/waveforms: No	# of back single-channel UHF sat comm relays: N/A
Capable of paging services: No	Capable of Link 16 nets at one time: N/A
Capable of cross-linking between multiple UAVs: Yes	Capable of CDMA wireless telephone services: N
Capable of cross-banding between CRP-D components: No	Capable of integration into the WIN-T Network Management System: No
Beyond line-of-sight (BLOS) relay for EPLRS of the Tactical Internet: No	Capable of integration into the Joint Network Management System (JNMS): No
Remote control of the payload via an on-board comms manager controller: Yes	